## IN THE CLAIMS:

## 1-18. (Canceled)

19. (Previously Presented) A method for bonding a transmission line to the inside diameter of a downhole tool, comprising the steps of:

positioning a transmission line near the inside wall of a downhole tool;

positioning a mold near the transmission line and the inside wall;

injecting a bonding material into the mold such that the bonding material bonds the transmission line to the inside wall;

curing the bonding material; and removing the mold from the bonding material.

## 20. (Canceled)

- 21. (Original) The method of claim 19, further comprising prepping the surface of at least one of the inside wall, and the transmission line, before injecting the bonding material.
- 22. (Original) The method of claim 21, wherein the step of prepping includes sanding, grinding, etching, or combinations thereof.
- 23. (New) The method of claim 19, further comprising forming gaps in the bonding material at desired intervals along the bonding material.

- 24. (New) The method of claim 19, wherein the downhole tool is selected from the group consisting of drill pipe, hole openers, drill collars, heavyweight drill pipe, sub-assemblies, under-reamers, rotary steerable systems, drilling jars, drilling shock absorbers, and combinations thereof.
- 25. (New) The method of claim 19, wherein the transmission line comprises a protective covering.
- 26. (New) The method of claim 25, wherein the protective covering is made of stainless steel.
- 27. (New) The method of claim 19, wherein a portion of the transmission line is disposed within a channel formed near an end of the downhole tool.
- 28. (New) The method of claim 19, wherein the transmission line is a coaxial cable, copper wire, optical fiber, waveguide or combination thereof.
- 29. (New) The method of claim 19, wherein the step of positioning a mold near the transmission line and the inside wall includes pressing the mold against the wall with a clamping mechanism.
- 30. (New) The method of claim 29, wherein the clamping mechanism is a pneumatic or hydraulic cylinder.
- 31. (New) The method of claim 19, wherein the mold comprises a heating element.
- 32. (New) The method of claim 19, wherein the mold comprises a cooling channel.
- 33. (New) The method of claim 19, wherein the mold completely encircles the transmission line.